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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/684,850	10/06/2000	Isaac Cohen	1731-4108 2775			
7	590 06/14/2004	EXAMINER				
	FINNEGAN, L.L.P.	BERHANE, ADOLF D				
345 Park Avenue New York, NY 10154-0053			ART UNIT	PAPER NUMBER		
,			2838			
			DATE MAILED: 06/14/200	DATE MAILED: 06/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Art Unit			Application	Application No. Applicant(s)						
Adolf Berhane  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - The period for crept specified above is less than thirty (30), aboys, a reply within the statutory minimum of thirty (30) days will be considered small promition.  - If the period for crept specified above is less than thirty (30), aboys, a reply with the statutory minimum of thirty (30) days will be considered small promition.  - Failure for specified above is less than thirty (30), aboys, a reply with the statutory minimum of thirty (30) days will be considered small promition.  - Failure for specified above is less than thirty (30), aboys, a reply will be stated, cause in a specification be subjected to be used to specifications.  - Failure for specified above is less than thirty (30), aboys, a reply well be stated, and a specifications.  - Failure for specification is for specified above is less than thirty (30), aboys, a reply well be stated.  - Failure for specification is for an above the maining date of this communications, even if timely (field, may reduce any sent of patients).  - Failure for specification is on condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.   Disposition of Claims  4) Claim(s) 1.82 is/are pending in the application.  - 4a) Of the above claim(s) 45-82 is/are withdrawn from consideration.  - 5   Claim(s) 1.92 and 30-37 is/are objected to.  - 6   Claim(s) 1.92 and 30-37 is/are objected to.  - 7   Claim(s) 1.92 and 30-37 is/are objected to.  - 8   Claim(s) 1.92 and 30-37 is/are objected to by the Examiner.  - Application Papers  - 9   The drawing(s) filed on	Office Action Summary		09/684,850		COHEN, ISAAC					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edetacace of time may be available under the provisions of 3 CER 1.13(ig.). In no overt, however, may a nayly be timely filed  Edetacace of time may be available under the provisions of 3 CER 1.13(ig.). In no overt, however, may a nayly be timely filed  Edetacace of time may be available under the provisions of 3 CER 1.13(ig.). In no overt, however, may a nayly be timely filed  If the period for nealy specified above is less than thiny (30) says, as nayly within the statutory within the statutory period vall against on the provision of the control of the communication.  If the period for nealy specified above is less than thiny (30) says, as nayly within the statutory within the statutory period vall against on the specified of this communication.  If the period for nealy specified above is the standard period vall against on the communication to second above the communication.  If the period for nealy specified and the standard period vall against the specified of this communication.  If the period for nealy specified and the standard period of the communication to second above them shall be standard to the standard period of the communication.  If the period is specified to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 Q Claim(s) 1.28 Is/are pending in the application of consideration.  4 Q Claim(s) 1.38 Is/are pending in the application of consideration.  5 C Claim(s) 1.38 Is/are allowed.  6 Q Claim(s) 1.38 Is/are pending in the application of consideration.  5 C Claim(s) 1.38 Is/are allowed.  6 Q Claim(s) 1.			Examiner		Art Unit	- ON -				
Period for Reply  A SHOATENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - after SIX (8) MONTHS from the mailing date of this communication.  - If the period for reply sepecified above, the maximum statutory period will expire six (6) MONTHS from the mailing date of this communication.  - If the period for reply sepecified above, the maximum statutory period will expire six (6) MONTHS from the mailing date of this communication.  - If the period for reply sepecified above, the maximum statutory period will expire six (6) MONTHS from the remailing date of this communication.  - If the period for reply sepecified above, the maximum statutory period will expire six (6) MONTHS from the the date of the statutory minimum of thinty (0) days will be considered timely.  - If the period for reply sepecified above, the maximum statutory period will expire six (6) MONTHS from the remailing date of this communication, even if timely fleed, may reduce any sealing statutory.  - If the period to reply sepecified above, the maximum statutory period will expire six (6) MONTHS from the remailing date of this communication, even if timely fleed, may reduce any sealing statutory.  - Application is FINAL.  - 2b) ☐ This action is FINAL.  - 2b) ☐ Claim(s) 1-9.29 is/are pending in the application.  - 4a) Of the above claim(s) 45-92 is/are withdrawn from consideration.  - 5 ☐ Claim(s) 1-9.29 and 38-44 is/are rejected.  - 7 ☐ Claim(s) 1-9.29 and 38-44 is/are rejected.  - 7 ☐ Claim(s) 1-9.29 and 38-44 is/are rejected.  - 7 ☐ Claim(s) 1-9.29 and 38-44 is/are rejected.  - 8 ☐ Claim(s) 1-9.29 and 38-44 is/are rejected.  - 9 ☐ The specification is objected to by the Examiner.  - 10 ☐ The drawing(s) filed on			1							
THE MAILING DATE OF THIS COMMUNICATION.  Extractions of the may be valided under the provisions of 37 CFR 1.13(b), In no event, however, may a reply be limbly filed after 50. (6) MONTHS from the mailing date of this communication.  It NO period for reply a separation to the communication of the communi										
1)⊠ Responsive to communication(s) filed on 17 May 2004. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3]□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims 4]□ Claim(s) 1-82 is/are pending in the application. 4a) Of the above claim(s) 45-82 is/are withdrawn from consideration. 5]□ Claim(s) 1-9.29 and 38-44 is/are rejected. 7]□ Claim(s) 1-9.29 and 38-44 is/are rejected. 7]□ Claim(s) 1-9.29 and 38-44 is/are rejected to. 8]□ Claim(s) 1-9.29 and 30-37 is/are objected to. 8]□ Claim(s) 1-9.29 and 30-37 is/are objected to. 8]□ The specification is objected to by the Examiner. 10]□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Application Papers 9]□ The specification is objected to by the Examiner. 10]□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1□ Certified copies of the priority documents have been received. 2□ Certified copies of the priority documents have been received in Application No 3□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  **Attachment(s)** 1) Notice of References Cited (PTO-892)	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>If NO period for reply sepecified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any</li> </ul>									
2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-92 is/are pending in the application. 4a) Of the above claim(s) 45-82 is/are withdrawn from consideration.  5)  Claim(s) 1-92 and 38-44 is/are rejected.  7)  Claim(s) 1-929 and 38-44 is/are rejected to. 8)  Claim(s) 1-929 and 38-44 is/are rejected to. 8)  Claim(s) 1-92 and 30-37 is/are objected to. 8)  Claim(s) 1-929 and 38-44 is/are rejected or b. Objected to by the Examiner.  Application Papers  9)  The specification is objected to by the Examiner. 10)  The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)  Apper No(s)Mail Date 6/11/2001.	Status									
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#### **DETAILED ACTION**

## Claim Objections

1. Claims 40 and 41 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 40 just recited the power converter of claim 1 and claim 41 recites that the power converter is a power supply.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-9, 29 and 38-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Capel (5,029,062).

Capel discloses an electrical regulation and energy transfer circuit in Figs. 2 and 3. A primary switch Q3 and Q4, detection circuit 27, rectifier Q5 and Q6, driver M5 and M6, bi-directional power stage 13, impedance matching circuit 15 and current control system 16.

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## Allowable Subject Matter

4. Claims 10-28 and 30-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: None of the cited prior art disclose or teach a power converter with detection circuit using an auxiliary winding of the transformer to sense the voltage across the primary winding and the timing signal corresponding to a sense voltage inducted in the auxiliary winding or a detection circuit with a capacitor that is coupled to the voltage across the primary switch to provide the timing signal or a detection circuit includes a second transformer having a sense winding connected to a control terminal of the primary switch and a drive winding closely coupled to the sense winding and the timing signal corresponding to the voltage induced in the drive winding based on the voltage waveform on the control terminal or the rectifier conducts the output current when said primary switch is in the substantially non-conductive state and wherein the said rectifier driven OFF in response to the timing signal transitioning between levels corresponding to the primary switch switching from the substantially non-conductive state to the conductive state.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yee discloses a prediction methods and circuits for operating a transistors as a rectifier.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adolf Berhane Primary Examiner Art Unit 2838 Page 4